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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/772,756	01/30/2001	Mohammed Nafie	T1-31308	9448	
23494 7590 07/09/2004			EXAMINER		
TEXAS INSTRUMENTS INCORPORATED			DEPPE, BETSY LEE		
P O BOX 65547 DALLAS, TX		ART UNIT	PAPER NUMBER		
51122110, 171	, , , , , , , , , , , , , , , , , , , ,	·	2634	6	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/772,756	NAFIE ET AL.
Office Action Summary	Examiner	Art Unit
	Betsy L. Deppe	2634
The MAILING DATE of this communic	cation appears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions o after SIX (6) MONTHS from the mailing date of this commu - If the period for reply specified above is less than thirty (30) If NO period for reply is specified above, the maximum state - Failure to reply within the set or extended period for reply w Any reply received by the Office later than three months aft earned patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event, however, may a reply nication. days, a reply within the statutory minimum of thirty (3 utory period will apply and will expire SIX (6) MONTH rill, by statute, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed This action is FINAL. Since this application is in condition for closed in accordance with the practice 	b) This action is non-final. or allowance except for formal matters	· ·
Disposition of Claims		
4) ☐ Claim(s) 1-23 is/are pending in the ap 4a) Of the above claim(s) 16-23 is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restricti Application Papers	withdrawn from consideration.	
·· _		
9) ☑ The specification is objected to by the 10) ☑ The drawing(s) filed on 30 January 20 Applicant may not request that any object Replacement drawing sheet(s) including t 11) ☐ The oath or declaration is objected to	<u>01</u> is/are: a) accepted or b) objection to the drawing(s) be held in abeyance the correction is required if the drawing(s)	. See 37. CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internation. * See the attached detailed Office action	ocuments have been received. ocuments have been received in App f the priority documents have been re al Bureau (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTG) Information Disclosure Statement(s) (PTO-1449 or PPaper No(s)/Mail Date 3.	O-948) Paper No(s)/M	nmary (PTO-413) fail Date mal Patent Application (PTO-152)

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DETAILED ACTION

Election/Restrictions

- Applicant's election without traverse of claims 1-15 in the reply filed on April 27,
 acknowledged.
- Claims 16-23 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on April 27, 2004.
 Applicant is reminded to cancel the non-elected claims.

Drawings

3. The drawings are objected to because in Figure 5, "INTRODUE" should be "INTRODUCE". Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The

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replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

- 4. The abstract of the disclosure is objected to because on line 2, "interferer" should be "interference" or "interfering" for improved readability. Correction is required. See MPEP § 608.01(b).
- 5. The disclosure is objected to because of the following informalities: on page 6, line 6, "interferer" should be "interfere". Appropriate correction is required.
- 6. The use of the trademark Bluetooth[™] has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

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Claim Objections

7. The claims are objected to because of the following informalities:

in claim 7, line 2, "filter" should be "filter(s)";

in claim 10, lines 7 and 9, "decoded" should be inserted before "Bluetooth" for clarification;

in claim 14, line 2, "the desired" should be "a desired";

in claim 14, line 5, "decoded" should be inserted before "Bluetooth" and

in claim 15, line 2, "decoded" should be inserted before "Bluetooth". Appropriate correction is required.

Claim Rejections - 35 USC § 112

8. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

10. Claims 1-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

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11. With regard to claims 1-15, it is unclear how to use the received information to determine an "appropriate suppression technique" as recited in claim 1, lines 8-11 and claim 12, lines 8-12. Therefore, one skilled in the art would not be able to make and/or use the invention.

- 12. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 13. With regard to claims 1-15, it is unclear what constitutes "an appropriate suppression technique" as recited in claim 1, line 9 and claim 12, line 10.
- 14. With regard to claim 10, it is unclear how the recited steps relate to the steps in claim 1.
- 15. Claim 12 recites the limitation "the information" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

16. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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- 17. Claims 1-6, 9, and 11-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Roberts (US Patent No. 6,577,670 B1).
- 18. With regard to claims 1, 2, 9, 12 and 13, Figures 1 and 2 disclose the claimed invention. (See also column 2, line 31 column 3, line 64 and column 4, lines 43-47)
- 19. With regard to claims 3 and 6, column 3, lines 38-52 teach the recited limitation.
- 20. With regard to claims 4 and 5, column 2, lines 40-44 teach the recited limitation.
- 21. With regard to claim 11, claim 2, lines 51-54 teach the recited limitation. Since the FHSS radio is participating the FHSS network, it is implicit that the wideband radio (comprised of DSSS radio station 102 and FHSS radio station 20) is registered with the FHSS system, as recited in claim 11.

Claim Rejections - 35 USC § 103

- 22. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 23. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts as applied to claim 1 above, and further in view of Schilling (US Patent No. 5,185,762 cited in the IDS filed August 5, 2002, Paper No. 6). Roberts discloses the claimed invention except for placing notch filters in the transmission path of the wide band radio.

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24. Schilling teaches placing notch filters in a transmitter. (See column 2, lines 48-50; column 4, line 58 - column 5, line 2; and column 6, lines 46-68) It would have been obvious to one of ordinary skill in the art at the time the invention was made to use notch filters in the transmission path of the wideband radio of Roberts in order to avoid causing distortion to narrowband signals at overlapping bandwidths thereby resulting in more accurate data recovery by receivers in the narrowband systems.

Allowable Subject Matter

- 25. Claims 14 and 15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 26. The following is a statement of reasons for the indication of allowable subject matter: prior art of record does not teach or suggests in combination a narrowband section that decodes one or more Bluetooth packs and a wideband section that subtracts the decoded one or more Bluetooth packet, as recited in claim 14, lines 4-6.

Conclusion

27. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Williams et al. (US Patent Application US 2002/0057726 A1) discloses a radio with a wideband receiver and a narrowband receiver wherein a

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Bluetooth packet is decoded and used to adjust a notch filter in the wideband receiver.

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(See Figure 1)

28. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Betsy L. Deppe whose telephone number is (703) 305-

4960. The examiner can normally be reached on Monday, Tuesday and Thursday

(8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Betsy L. Deppe Primary Examiner

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